

- Optical to RF convertor (Satellite and FM,DAB,DTT)
- Quad and Quatro versions available
- Automatic Gain Control (AGC)
- Powered by STB or PSU
- Terrestrial signals overlaid onto each output (Quad only)
- Frequency Morphing Technology (FMT) for Worldwide use



The FibreIRS GTU converts optical power to RF power (4 satellite bands and FM,DAB,DTT). All units have built in AGC which allows a wide dynamic range of optical powers without affecting output power and quality. Two LED indicators allow the user to monitor the status of the unit.

Two versions available —

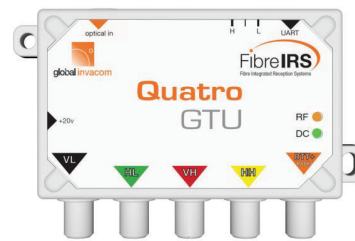
Quad for use directly with a STB/faceplate.

Quatro for use with a multiswitch as it has dedicated outputs for each of the satellite bands (Vertical Low, Horizontal Low, Vertical High, Horizontal High) and terrestrial.

Both versions can be powered via the satellite outputs and used with either the Optical LNB or the ODU32.



Quad version



Quatro version

Technical Specifications

Product Part No.

Quad GTU	D000187
Quatro GTU	D000188

Satellite (Electrical)

Parameter	Min	Max	Notes
RF frequency range (MHz)	950	2150	
Output impedance	75Ω		
Return loss	10dB		
Gain variation across band		5dB	
Nominal output level (Quad)	75dBμV *		For 30 transponders
Nominal output level (Quatro)	79dBμV *		For 30 transponders
Terrestrial rejection	35dB		

* additional variation can occur due to satellite transmitted signal levels.

Fibre Integrated Reception System

DTT, DAB & FM (Electrical)

Parameter	Min	Max	Notes
RF frequency range			
DTT	470-790MHz		
DAB	174-240MHz		
FM	88-108MHz		
Nominal impedance	75Ω		
Return loss	10dB		
Nominal DTT output Quad (Quatro)	71dBμV (78dBμV)		For 6 multiplexes
Gain variation across band		5dB	
950-2150MHz rejection	35dB		

FM,DAB,DTT & Satellite (Optical)

Optical wavelength	1100nm to 1650nm		
Optical input power (typical)	-12dBm [#]	-3dBm	[#] For systems with 19.2dB optical budget

Control signals (Quad only)

Vertical select voltage	10.5V	14.5V	13V nominal
Horizontal select voltage	15.5V	19V	18V nominal
Low / High band	0/22KHz tone		

DC specification

Input voltage range	10.5V to 21V	For both direct or line powering
Current consumption (Quad)	235mA max	@ 10.5V for RX1 and Rx2 only (line powered)
Current consumption (Quad)	235mA max	@ 10.5V for RX3 and Rx4 only (line powered)
Total Current consumption (Quad)	470mA max	@ 10.5V (direct power)
Current consumption (Quatro)	490mA max	@ 10.5V

Connectors

Quad output	F x 4
Quatro output	F x 5
Power supply	2.1mm Jack
Optical input	FC/PC

Environmental Specification

Operating temperature	-15°C to +50°C
Storage temperature	-20°C to +70°C

Optical cabling

Fibre type	Single mode
Standard	GI - approved G657a

Dimensions

Size (W x H x D)	128.7mm x 116.5mm x 27mm (Quad)
	120.8mm x 80.1mm x 26.3mm (Quatro)
Weight	325g (Quad) 175g (Quatro)

Software (GUI) for Frequency Morphing

Supported operating systems	WinXP, Win7, Linux, Mac OS
Interface	UART